

For more Information  
please call

1-800-Belden1



## General Description:

RG-58A/U type, 20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1      | 20  | 19x33     | TC - Tinned Copper | 0.889     |

Total Number of Conductors: 1

### Insulation

#### Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene   | 2.9464    |

### Outer Shield

#### Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper    | 95           |

### Outer Jacket

#### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.6985                   |

### Overall Cable

Overall Nominal Diameter: 4.902 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

Non-UL Temperature Rating: 75°C

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 186.824 N

Min. Bend Radius/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

|                             |       |
|-----------------------------|-------|
| MII Order #39 (China RoHS): | Yes   |
| RG Type:                    | 58A/U |

### Suitability

|                        |  |
|------------------------|--|
| Suitability - Indoor:  | Yes                                      |
| Suitability - Outdoor: | Yes                                      |
| Suitability - Aerial:  | Yes - when supported by a messenger wire |

### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 50              |

### Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.301852          |

### Nom. Capacitance Conductor to Shield:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 101.055            |

### Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 66     |

### Nominal Delay:

|              |
|--------------|
| Delay (ns/m) |
| 5.05274      |

### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 35.4348             |

### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 13.4521             |

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1           | 1.3124                |
| 10          | 4.9215                |
| 50          | 12.1397               |
| 100         | 17.7174               |
| 200         | 26.5761               |
| 400         | 40.6844               |
| 700         | 58.0737               |
| 900         | 69.2291               |
| 1000        | 74.8068               |

### Max. Operating Voltage - Non-UL:

|            |
|------------|
| Voltage    |
| 1400 V RMS |

## Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc             |
|---------------|--------|-------------|-------|-------|-----------------------|
| 8259 010U1000 | 305 MT | 11.793 KG   | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 010U500  | 152 MT | 6.350 KG    | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 010100   | 30 MT  | 1.497 KG    | BLACK |       | RG-58A/U 50 OHMS COAX |
| 8259 0101000  | 305 MT | 12.247 KG   | BLACK | C     | RG-58A/U 50 OHMS COAX |

|              |          |           |       |   |                       |
|--------------|----------|-----------|-------|---|-----------------------|
| 8259 010500  | 152 MT   | 6.350 KG  | BLACK | C | RG-58A/U 50 OHMS COAX |
| 8259 0105000 | 1,524 MT | 61.235 KG | BLACK | C | RG-58A/U 50 OHMS COAX |

**Notes:**

C = CRATE REEL PUT-UP.

## Test Reports

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

Revision Number: 1      Revision Date: 08-14-2012

© 2012 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.